FORESTRY

THE JOURNAL OF THE SOCIETY OF FORESTERS OF GREAT BRITAIN

Edited by R. W. V. PALMER

VOLUME XXXIV

Published by the

OXFORD UNIVERSITY PRESS

AMEN HOUSE, E.C. 4

1961

PAST PRESIDENTS

1926 to 1928	R. L. ROBINSON	1945 to 1947	W. H. GUILLEBAUD
1929 and 1930	JOHN D. SUTHERLAND	1948 and 1949	O. J. SANGAR
1931 and 1932	R. S. PEARSON	1950 and 1951	H. M. STEVEN
1933	W. DALLIMORE	1952 and 1953	A. H. GOSLING
1934 and 1935	SIR ALEXANDER RODGER	1954 and 1955	W. E. HILEY
1936	SIR FRANCIS ACLAND	1956 and 1957	A. P. LONG
1937 and 1938	W. L. TAYLOR	1958 and 1959	SIR HARRY CHAMPION
1939 to 1944	W. A. ROBERTSON		

OFFICE BEARERS 1960–1 AND COUNCILLORS 1960–2

President: PROFESSOR E. C. MOBBS, O.B.E., M.A., B.SC., University College of North Wales, Bangor.

Vice-President: J. A. B. MACDONALD, DIP. FOR., Conservator, Forestry Commission, Dumfries.

Editor: R. W. V. PALMER, B.A., Bannerleigh, Leigh Woods, Bristol.

Business Editor: H. L. EDLIN, B.SC., Forestry Commission, 25 Savile Row, London, W.1. Tel. REGENT 0221.

Secretary and Treasurer: R. A. GALLOWAY, O.B.E., M.C., B.SC., Solicitor, 7 Albyn Place, Edinburgh, 2. Tel. CAL. 7402.

Auditor: D. L. FERGUSON, 11 Carlton Terrace, Edinburgh, 7.

Councillors: while immediate past president, SIR HARRY CHAMPION; *retire in* 1961 *but eligible for re-election,* T. V. DENT, J. J. MACGREGOR, *and* A. B. L. MUNRO-FERGUSON (*Professional Associates*), P. A. HUTT (*Professional Member*), *and* G. E. H. PALMER (*Ordinary Member*). *Co-opted for* 1961, J. R. HAMPSON. *Retire in* 1962 *but eligible for re-election,* M. V. LAURIE, J. R. THOM, M. J. PENISTAN, G. B. RYLE, *and* J. MAXWELL MACDONALD (*all Fellows*).

© *Oxford University Press,* 1961

PRINTED IN GREAT BRITAIN AT THE UNIVERSITY PRESS, OXFORD
BY VIVIAN RIDLER, PRINTER TO THE UNIVERSITY

CONTENTS

Number 1

Forestry in west central Wales (*with Plates I to VII*). F. C. BEST and J. R. HAMPSON 1

Insecticidal control of the Pine Looper in Great Britain. II. *Population assessment and fogging*. D. BEVAN 14

Some common mosses as indicators in forestry. I. G. HALL 25

Yorkshire Excursion. *Hardwoods*. 43

Studies on *Ulmus*, IV. The village elms of Huntingdonshire and a new method for exploring taxonomic discontinuity. R. H. RICHENS 47

Thinning Control. D. R. JOHNSTON and W. T. WATERS 65

Climatic sub-regions of Wales. G. MELVYN HOWE 75

The British Association at Cardiff, 1960 82

REVIEWS

C. D. F. REVENTLOW. A Treatise on Forestry. H. M. STEVEN 88

PAUL E. VEZINA. Recherches sur les conditions de lumière et de précipitations dans les forêts traitées par la coupe progressive par groupes. W. A. FAIRBAIRN . . 88

W. B. R. LAIDLAW. Guide to British Hardwoods. H. L. EDLIN 90

WILLIAM A. DUERR. Fundamentals of Forestry Economics. A. J. GRAYSON . . 91

H. L. EDLIN. Wild Life of Wood and Forest. MONICA VIZOSO 93

STEPHEN H. SPURR. Photogrammetry and Photo-Interpretation. F. C. OSMASTON . 94

P. P. PIRONE. Tree Maintenance. R. H. HIDE 95

J. W. L. ZEHETMAYR. Afforestation of Upland Heaths. H. M. STEVEN 96

E. R. HUGGARD and T. H. OWEN. Forest Tools and Instruments. A. H. LLOYD . . 98

W. A. FAIRBAIRN. Climatic Zonation in England and Wales. R. F. WOOD . . 99

T. R. PEACE. The status and development of elm disease in Britain. R. H. RICHENS . 101

H. VEDEL and J. LANGE. Trees and Bushes in Wood and Hedgerow. M. PENISTAN . 102

W. E. S. MUTCH. Financial and Cost Accounting for Forest Enterprises. W. E. HILEY . 103

NOTICES

H. L. EDLIN *et al.* Cambrian Forests 104

LESLIE WOLFF. Science and the Forester 105

SIR SOLLY ZUCKERMAN *et al.* Land Ownership and Resources 105

OBITUARY

C. P. ACKERS, J. M. COWAN, D. W. YOUNG, W. MACF. ROBERTSON, and J. D. D. EVANS . 106

CORRESPONDENCE

The use of Barrier Layer Cells as Radiation Meters. R. D. CONNOR and W. A. FAIRBAIRN 109

MISCELLANEOUS

Honour; Society's meeting, 1961; British Association, 1961; Filmstrips; Corrigendum 112

CONTENTS (*continued*)

Number 2

Shelter for Profit. J. M. CABORN 113

A key to Beech (*Fagus sylvatica* L.) Associations on Chalk Uplands in England devised by Ray Bourne. W. M. McNEILL 116

Variation in Tracheid Length within the Ring in *Pinus radiata* D. Don. L. CHALK and M. ORTIZ C. 119

Tracheid and Fibre Length in Timber. A review of literature. J. M. DINWOODIE . 125

Crown Die-back and Debility in Corsican Pine (*P. nigra* var. *calabrica*) in Britain (*with Plates VIII to XI*). W. R. DAY 145

The Natural Woodlands of Galloway and Nithsdale. JOHN GLADSTONE of Capenoch . 174

Studies on *Ulmus*, V. The village elms of Bedfordshire. R. H. RICHENS 181

The World's Future Demand for Paper. J. J. MACGREGOR 201

REVIEWS

SILVA FENNICA 105. Symposium on Forest Types and Forest Ecosystems during the IX International Botanical Congress. E. W. JONES 209

PHILIPPE DUCHAUFOUR. *Précis de Pédologie*. E. A. FITZPATRICK 211

L. PARROT. *De la variabilité génétique de la densité du bois chez l'Épicéa* (*Picea excelsa* Link.). C. W. SCOTT 212

H. ARTHUR MEYER, ARTHUR B. RECKNAGEL, DONALD B. STEVENSON, and RONALD A. BARTOO. Forest Management. N. V. BRASNETT 213

OLAF HAGERUP and VAGN PETERSSON. A Botanical Atlas. A. CARLISLE 215

P. D'A. JONES and E. N. SIMONS. Story of the Saw. A. H. LLOYD 216

ROGER F. ANDERSON. Forest and Shade Tree Entomology. MYLES CROOKE . . 217

OBITUARY

PROFESSOR ÉTIENNE HUBAULT and BERNARD ALWYN JAY 218

LIST OF MEMBERS

List of Members of the Society as at 1 June 1961 219

NEWS

Honours; Recent Changes 224

LIST OF MEMBERS

OF THE

SOCIETY OF FORESTERS OF GREAT BRITAIN

AS AT 1 JUNE 1961

Explanatory Notes

F.C.	Forestry Commission.
F.P.R.L.	Forest Products Research Laboratory.
I.F.I.	Imperial Forestry Institute.
P.F.O.	Private Forestry Officer.
S.W.O.A.	Scottish Woodland Owners' Association.

The list has been compiled from the information available in the Society's records. Where no descriptive initials are given, this is due to lack of information, and members affected are asked to send the appropriate details to the Secretary. Members are asked to notify any changes of address, description, &c., as soon as they occur, so that the records may be kept up to date.

FELLOWS

Aaron, J. R., F.C.
Adkin, B. C., Coll. of Estate Management.
Aitkins, A. E., Consultant.
Aldous, John R., F.C.

Backhouse, G. W., F.C.
Ballance, G. F., F.C.
Barrington, C. A. J., F.C.
Batters, George J. L., F.C.
Beresford-Peirse, Sir Henry, Bart., F.A.O.
Best, F. C., F.C.
Binns, W. O., Macaulay Institute of Soil Research.
Blair, Sir James H., Bart., of Blairquhan.
Bloomer, Leonard, For. Consultant.
Boël, Max, Hon. Fellow.
Brasnett, Norman V., C.F.S. (retired).
Broadwood, R. G., F.C. (retired).
Brown, Gilbert, Estate Factor.
Brown, J. D.
Brown, Thomas, Consultant.

Cadman, W. A., F.C.
Cameron, G. J., Head Forester.
Chalk, Dr. Laurence, I.F.I.
Champion, Prof. Sir H. G.
Chard, J. S. R., F.C.
Connell, C. A., F.C.
Crooke, Dr. Myles, Aberdeen University.
Currie, J. H., F.C.

Day, W. R., I.F.I.
Dixon, E. E., F.C.

Edlin, H. L., F.C.
Edwards, M. V., F.C.

Fairbairn, Dr. W. A., Edinburgh University.
Feaver, B. R., Consultant.
Fergusson, D. C., Edinburgh University (retired).
Fitzherbert, J. T. L., F.C.
Fossey, N. E., F.C.
Francis, D. A., F.C. (retired).
Francis, G. J., F.C.

Galloway, J. A., Consultant.
Galloway, R. A. (Secretary).
Garfitt, J. E., Consultant.
Gibson, W. N., F.C.
Gill, J. M., Consultant.
Glover, Sir Harold, I.F.S. (retired).
Goodwin, J. F., F.C.
Gorrie, Dr. R. M., I.F.S. (retired).
Gosling, Sir A. H., F.C.
Grant, David, F.C.
Guillebaud, W. H., F.C. (retired).

Harker, M. G., F.C.
Harris, C. M., Consultant.
Harrison, P. D.
Herbignat, A., Hon. Fellow.
Hide, R. H., Consultant.
Hiley, W. E., P.F.O.
Hodson, G. A., Consultant.
Hummel, Dr. F. C., F.C.

James, J. E., F.C.
James, N. D. G., Chartered Land Agent.
Jay, B. A., Timber Development Association.
Johnston, D. R., F.C.

Keen, J. E. A., F.C.
Kitchingham, G. D. R., I.F.S. (retired).

Lamb, J. A., F.C.
Langley-Taylor, G., Land Agent.
Larsson, Capt. O. G., Canada.
Laurie, Prof. M. V., Oxford University
Lines, Roger, F.C.

Macdonald, James, F.C.
Macdonald, J. A. B., F.C.
Macdonald, J. Maxwell, of Largie.
Macgregor, J. J., Forest Economist.
Macgregor, William D., Consultant.
Mackay, J. W., F.C. (retired).
Mackenzie, J. M. D., I.F.S. (retired).
Macmillan, H. R., Forest Owner, Canada.
McLelland, Henry, M. of A. (retired).
McNeill, W. M., Forestry Lecturer (Aberdeen University).
Milne-Home, Sir John, Bart., of Elibank.
Mobbs, Prof. E. C., University College of North Wales (President).
Mould, R. C. L., Consultant.

Newton, R. W. B., Chartered Surveyor.

Oliver, F. W. A., F.C.
Osmaston, F. C., Oxford University.
Owen, T. H., University College of North Wales.

Palmer, R. W. V., I.F.S. (retired). Editor.
Peace, T. R., F.C.
Pearson, F. G. O., F.P.R.L.
Penistan, M. J., F.C.
Phillips, Dr. E. W. J., F.P.R.L.

The Right Hon. The Earl of Radnor.
Ramsay, Dr. D. M.
Redmond, James, Australia.
Rees, T. I.
Rendle, B. J., F.P.R.L.
Richards, E. G., F.C.
Robbie, T. A., F.C.
Robertson, W. A., I.F.S. (retired).
Rogers, S. W., F.C.
Ross, A. H. H., F.C. (retired).
Rouse, G. D., F.C.
Ryle, G. B., F.C.

Sangar, O. J., F.C. (retired).
Sanzen-Baker, R. G., F.C.
Sayres, R. J., Consultant.
Scott, C. W., F.P.R.L. (retired).
Scott, Frank, Consultant.
Smith, R. H., F.C.
Steven, Prof. H. M., Aberdeen University.
Stewart, Prof. A. B., Aberdeen University.
Stewart, I. J., F.C.
Stileman, D. F., F.C. (retired), Consultant.
Stocks, J. B., F.C.
Streets, R. J.

Taylor, Sir W. L., F.C. (retired), Consultant.
Thom, J. R., F.C.
Thompson, C. H., Lecturer in Estate Forestry (retired).
Thompson, W. P., F.C.

Urquhart, B. P., Consultant.

Walker, James, Consultant.
Warrack, G. C., Canada.
Watt, Dr. A. S., Cambridge University.
Watt, Andrew, F.C.
Weir, A. H. W., Edinburgh University.
Williamson, J. Q., F.C.
Wilson, Dr. S. E., Wood Technologist.
Wood, R. F., F.C.
Woods, R. P., Scientific Officer, T.D.A., London.
Woolridge, T. H., Timber Merchant.
Wright, H. L., I.F.S. (retired).
Wynne-Jones, E., F.C.

Zebetmayr, J. W. L., F.C.

PROFESSIONAL ASSOCIATES

Anderson, Prof, M. L., Edinburgh University.
Archibald, J. F.

Balfour, Mrs. E. J.
Baltaxe, Robert.
Banister, Nicholas, F.C.
Barber, S. C. L., P.F.O.
Bell, H. W., F.C.
Bell, T. I. W., F.C.
Benzian, Blanche, Miss.
Blatchford, O. N., F.C.
Blunt, Capt. H. S., Consultant.
The Right Hon. The Lord Bolton.
Boyd, D. B., S.W.O.A.
Braithwaite, J. D., Timber Merchant.
Bremner, J. F., Timber Merchant.
Brunig, Eberhard, F.W.O.
Burd, Christopher J. S., F.C.
Burgess, J. M. S., Zamba, Nyasaland.
Burnett, W. S., Forester.
Burns, L. V., United Nations, Venezuela.
Burton, E. S. V., F.C.

Cameron, J. D., F.C.
Cameron, R. D.
Campbell, John, For. Manager.
Carnell, Reginald, F.C.
Carter, D. W., Consultant.
Cathie, Robert G., F.C.
Chalmers, W. S., Trinidad.
Chapman, E. S. B., F.C.
Chard, R., F.C.
Chrystall, John, F.C.
Chrystall, J. G., F.C.
Clay, A. J. M., For. Officer, on Motorways.
Collier, F. S., For. Advisor, Colonies.
Conder, E. M., F.C.
Cooling, E. N. G., Silviculturist, N. Rhodesia.
Cooper, D. J., F.C.
Coulson, T. W. G., F.C.
Crosland, J. V. S., F.C.
Crowther, R. E., F.C.
Currie, D. McD., I.F.S. (retired).
Cuthbert, A. A., F.C.

Davidson, D. F., Cyprus.
Davidson, J. L., F.C.
Davies, E. J. M., F.C.
Davis, P. W., Aberdeen University.
Dawkins, H. C., Ecologist, Uganda.
Dent, T. V., F.C.
Dey, G. A., F.C.

Dickenson, M. E. S., F.C.
Dickson, J. A., F.C.
Dier, H. V. S., F.C.
Dodds, J. W.
Dolwin, J. E., Mpanda, Tanganyika.
Donald, F. J., F.C.
Donald, R. R., F.C.
Dowden, H. G. M., F.C.
Drummond, R. O., F.C.
Dyson, W. G., I.F.S. (retired), Consultant.

Earl, Derek E., F.C.
Edington, P. W. J.
Edwards, Johnston, Head Forester (retired).
Edwardson, T. E., I.F.I., Oxford.
Evans, Jack, S.W.O.A.
Evans, W. D. D.

Faulkner, R., F.C.
Felton, K. C.
Fergusson, J. L. F., F.C.
Fishwick, R. W., For. Dept. Borneo, N. Nigeria.
Fletcher, J. R., F.C.
Forrest, Geoffrey, F.C.
French, W. F., F.C.

Garthwaite, P. F., F.C.
Gilbert, G. D., Swaziland.
Gillespie, Ian, F.C.
Godwin, G. E., F.C.
Goodlet, J. A., D.F.O., F.C.
Gore, N. H., F.W.L.
Gough, P. C., F.C.
Graham-Campbell, Dugald, F.C.
Grant, G. C., Aberdeen University.
Grayson, A. J., F.C.

Hall, W. T., I.F.S. (retired), Timber Development Association.
Hampson, J. R., F.C.
Hardcastle, E. J. B., Consultant.
Hardie, A. D. K., F.C.
Harley, R. M., P.F.O.
Harris, E. H. M., F.C.
Harris, J. G.
Harrison, D. J., F.C.
Harrison, J. C., F.C.
Hart, C. E., Chartered Land Agent & Surveyor.
Hartley, W. R., Eastern Transvaal, S. Africa.
Hepburn, A. J., Conservator, North Borneo.
Herbert, R. I., Fiji.
Hetherington, J. C., Forest Service, Canada.
Hewetson, C. E., I.F.S. (retired).
Hewitt, R. M., F.C.
Hillman, C. H. R., Consultant.
Holloway, C. W., Nairobi.
Holmes, G. D., F.C.
Holtam, B. W., F.C.
Horne, R. J. G., F.C.
Howell, Gareth, F.C.
Howell, J. H., Ilorin, Nigeria.
Huggard, E. R., Lecturer.
Hughes, D. M., F.C.
Hurst, R. T.

Illingworth, Keith, Canada.
Innes, R. A., F.C.

Jackson, R. d'O.P., F.C.
Jackson, W. V., F.C.
Jarvis, William, Head Forester.
Jeffers, J. N., Forestry Statistician, F.C.
Jeffrey, W. G.
Jenkins, J. H., Canada.
Jenks, O. C.
Jennings, A. C. S., Forestry Manager.
Jones, A. R. C., Lecturer.
Jones, Eustace, I.F.I., Oxford.
Jordan, D. A.
Jorgensen, Hans C., Forester, Canada.
Joslin, Anthony, F.C.

Keighley, G. D., F.C.
Kellie, John, F.C.
Kennedy, J. N., F.C.
Kinloch, D., Lecturer.
Kinnaird, J. W.

Lancaster, P. C., Editor Secy., Empire For. Assocn., London.
Langley, P. J., F.C.
Larsen, R. T. F., F.C.
Lawrie, J. J., Somaliland.
Lawton, R. M., Northern Rhodesia.
Leadbeater, Illingworth, P.F.O.
Leefe, J.D., F.C., Forestry College, Cyprus.
Legard, P. H., F.C.
Leslie, J. E., F.C.
Lindsay, F. W., Consultant.
Lindsay-Smith, W. A., F.C.
Lloyd, A. H., I.F.I., Oxford.
Lorimer, J. T., Woods Manager.

Macalpine, R. I., India.
MacCormack, James, Head Forester.
Macdonald, Ian A. D.
Macdonald, Roderick, F.C.
MacIver, I. F., F.C.
Mackay, A. F.
Mackay, D., F.C.
Macpherson, Malcolm, F.C.
Macrae, C.
Malcolm, D. C., Edinburgh University.
Marshall, Ian R.
Martin, R. K., S.W.O.A.
Massey, J. E., F.C.
Matthews, J. D., F.C.
Maund, J.E., F.C.
Maxwell, H.A., F.C.
McEwen, John, For. Consultant.
McGarva, J. F., P.F.O.
McIntyre, P. F., F.C.
McKune, Frederick, Head Forester.
McNeill, Ian, F.C.
Miles, R.O., Forestry Officer and Landscape Architect.
Millar, Andrew.
Miller, R. G.
Miller, W. A.
Mitchell, A. F.
Mitchell, B. A., F.R.I., Selangor.
Mitchell, T. C., F.C.
Mithen, D. A., F.C.
Morgan, J. F., F.C.

Morgan, Peris W., F.C.
Munro-Ferguson, A. B. L., of Novar.
Murray, J. S., Aberdeen University.

Newton, J. P., P.F.O.

Oakley, J. S., F.C.
O'Dell, Prof. A. C., Aberdeen University.
Orrom, M. H., F.C.
Osmeston, J. F., F.C.
Overell, P. A. W., F.C.
Ovington, J. D., Nature Conservancy, London.

Page, P. R.
Parsons, A. D., Asst. Conservator of Forests, Sarawak.
Paterson, D. B., F.C.
Pawsey, R. G., Assistant Pathologist, F.C.
Peaty, C. E., Manager, Economic For. Group.
Perry, D. J.
Petrie, S. M., F.C.
Priestley, F. J., Forester.
Purey-Cust, J. R., Asst. Manager.

Richardson, S. D., Director of Research, New Zealand.
Roberts, J. D. H., Consultant.
Robertson, B. J., Miss.
Robertson, D. Y. M., F.C.
Robertson, S. U., F.C.
Ross, C. Y., Head Forester.
Rowan, A. A.
Rowland, Langshaw, Consultant.
Russell The Hon. Mrs. J. E. S.

Sale, G. N., P.F.O.
Salter, I. J. W.
Sargent, J. W., F.C.
Scarratt, J. B., F.C.
Scott, A. H. A., F.C.
Seal, D. T., F.C.
Shirley, M. C., F.C.
Simpson, A. W., Ministry of Agriculture (Northern Ireland)
Skinner, J. R., F.C.
Small, Donn, F.C.
Smith, A. W.
Smith, Walter T., F.C.
Spencer, A. J., Timber Growers' Association.
Spencer, J. A., F.C.
Stein, A. H., I.F.S. (retired).
Stern, R. C., F.C.
Stevenson, Duncan.
Steward, G. G., F.C.
Stirling, James.
Stoakley, J. T., F.C.
Stott, K. G., Willow Officer.
Stumbles, R. E., F.C.
Sutherland, W. B., F.C.
Sutton, A. R., F.C.
Sutton, Roy F., Research For. Officer, Canada.
Swabey, C., Forestry Adviser to Colonial Office.
Sweet, J. M., I.F.S. (retired).

Taylor, G. J. N., Consultant.
Thallon, Kenneth P., F.C.
Tilney-Bassett, H. A. E., F.C
Townsend, K. N. V., F.C.
Troup, Leslie C., F.C.

Voysey, J. C., F.C.

Waters, R. M., Asst. Conservator, British Honduras.
Watson, J. W., Conservator of Forests, Malaya.
Watt, I. S., F.C.
Weatherell, John, F.C.
Webb, F. H., F. C.
West, D. H.
Weston, Fred, F.C.
Wilkinson, Ian.
Williams, M. R. W., F.C.
Wilson, K. W., F.C.
Wilson, P. J. D., P.F.O.
Winchester, P. L., F.C.
Wood, G. B., Research Officer, Queensland.
Wood, Peter J., Conservator of Forests, Tanganyika.
Wood, Robert F., F.C.
Woodburn, D. A., F.C.
Workman, J. H. B., Forestry Adviser, National Trust.
Wright, T. W., Director English For. Assocn. Ltd.
Wylie, N. A., Canada.

PROFESSIONAL MEMBERS

Baker, R. M., Student.
Banner, J. S., Head Forester.
Bartholomew, G. R., Forester.
Bayne, Andrew, Head Forester.
Beasley, G. F., Head Forester, F.C.
Betterton, S. J., Forester, F.C.
Brandie, W. J.
Broll, J. L., Forester.
Burrows, L. W., Head Forester.

Carruthers, M. F., Forester.
Chisholm, M. R., Forester.
Christie, J. M., F.C.
Clissold, J. W., Head Forester.
Cochrane, Andrew, Forester.
Colley, M. A., Assistant Forester.
Corder, H. A., Nurseryman.
Cousins, D. A., F.C.
Culverwell, J. D., D.O.

Dalgleish, T. W., Consultant.
Dallas, W. O., Student.
Davidson, J. R., F.C.
Diamond, T. B., Forester.
Drysdale, Alex., F.C.
Dunn, J. F., Head Forester and Consultant.

Edes, D. S., F.C.
Edmonson, J. T., Head Forester.
Ellis, W. H., Forester.
Evans, Peter, Asst. Forester.
Evans, Ronald J., Forester-in-Charge.
Evans, W. R., Ghana.
Everard, J. E., Asst. Forester.

Flynn, A. E., F.C.
Forbes, G. S., Research Forester.
Fox, J. E. D., Student.
Fraser, E., Foreman Forester.
Furnell, K. T.

Gardiner, A. S., F.C.
Gilbert, George, Head Forester, F.C.
Gillies, A., Forester.
Godfrey, M., Chief Forester.
Graham, Alex., F.C.
Grossert, Alex., Head Forester.
Gutch, J. H. M., Forester.

Hall, Ivor G., Forester, F.C.
Hart, R. B., Forester.
Heavener, C. H., Head Forester.
Hendry, J. B., Woods Manager,
Hislop, J. J., F.C.
Howell, B. N., Consultant.
Hutt, P. A., Forest Manager.
Hyett, Samuel, Forester.
Hytch, F. A. L., Student.

Irvine, T. K., Head Forester.

Jamieson, R. A., F.C.
Jones, E. B., Forester.

Kelly, B. A. N., Asst. Regional Officer, S.W.O.A.
Kerr, C. H., Forester, M. of A.
King, A. J., Forester.
Kirk, D. M., Forester.

Locker, F. A., Head Forester.
Low, J. D., Field Asst.

Mackay, W. H., State Forester.
MacKenzie, A. M., F.C.
Macrae, A. D., Head Forester.
Marriner, E. W., Head Forester.
McNaught, D. J., F.C.
Milnes, Mervyn, F.C.
Mould, A. G., Technical Assistant.
Mowat, William, Head Forester.
Muggleton, H. G., F.C.
Murdoch, R. K., F.C.

Newton, Arthur, Head Forester.
Nimmo, Maurice, F.C.

Oliver, J. C. C., Forester.

Paley, James, Student.
Parkinson, Jack, Forester.
Pashley, Frank, Head Forester.
Pyman, A. G., Forester.

Reed, G. W., Forester, Alberta Govt.
Robinson, D. A., F.C.
Roe, John, Head Forester.
Roe, W. T., F.C.
Ross, Archibald, Consultant Forester.
Ross, Duncan, Head Forester.
Rowland, John, Head Forester.

Saxton, P. R., Joiner.
Scruton, R., Assistant Forester.
Shepherd, W. R., Consultant.
Sinden, J. A., Student.
Small, J. R. M.
Spiers, D. R., Head Forester.
Stephenson, Francis, F.C.
Stone, P. L., F.C.
Stott, W. S., Forester.
Straughan, J. G., F.C.

Taylor, C. E., F.C.
Tugwell, D. G., F.C.

Udale, J. C., Nurseryman.
Usher, G. A., Forest Manager.

Walker, D. H. J., Director, Wealden Woodlands Ltd.
Walker, I., F.C.
Ward, M. H. P., Forester.
Warren, D., Head Forester.
Watson, J. D., F.C.
Watson, R. M., Head Forester.
Wheeler, R. T., F.C.
Wilkinson, E. J. D., Forester.
Williams, D. J., F.C.
Wood, J. A., Student.
Wright, D. C., Forester.

ORDINARY MEMBERS

Adams, The Rev. E. W.

Bacon, Sir Edmund C., Bart.
Balfour, A. N.
Bowser, Major D. C., of Argaty.
The Right Hon. The Earl of Bradford.
Brodie, Major D. J., of Lethen.
Brownlie, Alex., Timber Merchant.
His Grace The Duke of Buccleuch and Queensberry.
Budden, C. E., Wood Buyer.

Calder, Sir James C., of Ledlanet.
Campbell, Sir George, of Succoth.
The Right Hon. The Earl Cawdor.
Conservator of Forests, Tanganyika.
Cotterell, Sir Richard C. G., Bart., of Garnons.
Cummings, William H., of Washington, America.

The Right Hon. The Earl of Dundee.

Eade, C. A., Land Agent.
Edwards, G. E.
Edwards, J. K.
Elmhurst, L. K., of Dartington.
The Right Hon. The Viscount Emlyn.

Forestry Commissioners.
Frost, Finn, Newfoundland.

Garside, G. H., Director of Parks.
Gilmour, Sir John E., Bart., of Montrave.
Gladstone, John, of Capenoch.

Hills, A. L. F., of Redleaf.
Hitch, A. F., Land Agent & Surveyor.
Hoare, H. P. R., of Stourton.

Holbrow, W. G., Timber Merchant.
Hudson, R. H.

Institute and College of Forest Research, India.

Jacob, G. R., Timber Merchant.
Jedross, W. A.
Jonas, R. F. C., Land Agent.
Jörgensen, O. M., Denmark.

Kenworthy, Alan, P. F. O.
Kirkup, Austin, Timber Merchant.

Latham, E. B., Forestry Commissioner.
Laws, G. C., Chartered Land Agent.
Lee, O. S., Estate Manager.
Lewthwaite, Sir William A., Bart., Solicitor.
Longhurst, S. C., Timber Merchant.
Luttrell, G. F., of Dunster Castle, Dunster.

Macdonald, I. C., Land Agent.
Macdonald Lockhart, S. F., of the Lee.
Mackeson-Sandbach, Capt. G. L., Land Owner.
Macqueen, G. C. F., Timber Merchant.
Maxwell, A. T., Col., Forestry Owner.
Maynard, C. R. G.
McGeorge, T. H., Forestry Commission.
McLinden, Derek, Nyasaland.
Meynell, R. W., Woodland Owner.
Mildmay-White, John, Land Agent.
Ministry of Agriculture, Northern Ireland.
Mitchell, Lt.-Col. C. G., of Pallinsburn.
Mitchinson, Miss Irene.
Moore, Barrington.
Moulton, H. W., Norfolk.

Owen, A. L. O., Forestry Commissioner.

Palmer, G. E. H., Land Owner.
Pratt, C. J., Chartered Land Agent.

Proby, Major Sir Richard G., Bart., of Elton Hall.

Qvistgaard, P. E. V., Denmark.

Ramsay, Capt. A., Land Agent.
Rankin, K. N., C.A.
Rickards, L. J., Forestry Officer.
Riddoch, W. J., Timber Merchant.
Russell, The Hon. J. E. S., Land Owner.

Sadd, H. N., Timber Merchant.
Seymour, Major W. N., Estate Agent.
Shackleton, J. F., Manager.
Smith, J. T., Timber Merchant.
Steele, J., Forestry Commission.
Stewart, T. P., Factor, Atholl Estates.
Stirling, Col. William J., of Keir.
Stirling, Sir John, Kt., of Fairburn.
Strang Steel, Major F. W., of Ravensheugh.
Strang Steel, Sir Samuel, Bt., of Philiphaugh.
Sudbrook Pulp Mill Ltd.

Trevelyan, J. T., of Longwitton Hall.
Tritton, P. A., Woodland Owner.

Vane, W. M. F.
Venables, C. J., Timber Merchant.
Venables, John, Timber Merchant.

Wallace, Alexander, Woodland Owner.
Warriner, M. H., Lt.-Col., Woodlands Supervisor.
Wellesley, Miss M., Woodland Owner.
Wills, Capt. W. D. M., of Barley Wood.
Wilson, R. F., Timber Merchant.
Wolryche-Whitmore, G. C., Capt., Woodland Owner.
Workman, F. E.

Yerburgh, Capt. J. M. A., of Barwhillanty.

NEWS

Honours. The following are included in the Queen's Birthday Honours, 1961: O.B.E. Messrs. Dennis Healey and G. K. Stobart; M.B.E. Mr. R. R. Donald. Also in the New Year Honours list: Messrs. E. W. Mackensie, W. F. Watson, and Mrs. Genese.

Recent Changes. On the retirement of Mr. R. C. B. Gardner, O.B.E., at the end of 1959, Mr. P. S. Leathart, M.B.E., was appointed Secretary to the *Royal Forestry Society of England and Wales.* Mr. Leathart also became editor of the Society's journal the *Quarterly Journal of Forestry* when Mr. H. L. Wright retired in July 1960. Mr. Leathart graduated in forestry at Oxford before entering the Indian Army.

Mr. P. C. Lancaster, O.B.E., succeeded the late Mr. W. MacF. Robertson as Editor-Secretary *The Empire Forestry Association* in March 1961. After 5 years in Canada, Mr. Lancaster entered the Colonial Forest Service in 1929 and was Director of Forest Research Nigeria from 1954 until his retirement in 1960.

Dr. R. M. Gorrie, I.F.S. (retired), succeeded Dr. W. E. S. Mutch as editor of *Scottish Forestry* in July 1961. Dr. Gorrie's address is 15 Murrayfield Drive, Edinburgh 12.